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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,491	04/18/2006	Wenping Wu	10178.204-US	3823
25908 7590 04/24/2009 NOVOZYMES NORTH AMERICA, INC.			EXAMINER	
500 FIFTH AVENUE			SWOPE, SHERIDAN	
SUITE 1600 NEW YORK, NY 10110			ART UNIT	PAPER NUMBER
,			1652	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/576,491 WU ET AL. Office Action Summary Examiner Art Unit SHERIDAN SWOPE 1652 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 April 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-5,7,11-14,16-20,23-25,27 and 28 is/are pending in the application. 4a) Of the above claim(s) 14.16-20.23 and 27 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-5,7,11-13,24,25 and 28 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

U.S. Patent and Trademark Offic PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 0409

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Information Disclosure Statement(s) (PTO/SB/08)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/576,491 Page 2

Art Unit: 1652

DETAILED ACTION

Applicants' request for continued examination of April 2, 2009, in response to the action of January 7, 2009, is acknowledged. It is acknowledged that Claims 1, 5, and 23 have been amended and Claim 28 has been added. Claims 1-5, 7, 11-14, 16-20, 23-25, 27, and 28 are pending. Claims 14, 16-20, 23, and 27 were previously withdrawn, as being drawn to nonelected inventions. Claims 1-5, 7, 11-13, 24, 25, and 28 are hereby examined.

Claim Rejections - 35 USC § 112-Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 5, 7, and 28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention for the following reasons.

Amendment of Claim 1 necessitates the following rejections of dependent claims.

For Claim 2, line 1, the term "having" renders the claim indefinite. It is unclear whether said term means "comprising" or "consisting of". The skilled artisan would not know the metes and bounds of the recited invention. For purposes of examination, it is assumed that "having" means "comprising".

For Claim 2, the phrase "an amino acid sequence" renders the claim indefinite. It is unclear whether said phrase means "the amino acid sequence" (referring to "an amino acid sequence in Claim 1, line 1) or "any amino acid sequence", referring to "An isolated protease" in Claim 1, line 1). The skilled artisan would not know the metes and bounds of the recited invention. For purposes

Application/Control Number: 10/576,491 Page 3

Art Unit: 1652

of examination, it is assumed that "an amino acid sequence" for Claim 2 means "The protease according to claim 1, wherein the amino acid sequence has more than....".

Rejection of Claim 5 under 35 U.S.C. 112, second paragraph, is maintained. For Claim 5, it is unclear whether the recited subject matter is:

- (i) The protease according to claim 1, wherein the amino acid sequence is a variant comprising a substitution, deletion, and/or insertion of one or more amino acid residues of the protease having the amino acid sequence shown as amino acids -25 to 226 of SEQ ID NO:2. Or
- (ii) The protease according to claim 1, wherein the protease is a variant of the protease set forth by amino acids -25 to 226 of SEQ ID NO.2, comprising a substitution, deletion, and/or insertion of one or more of said amino acid residues.

For purposes of examination, it is assumed that Claim 5 is meant to recite (i), above.

For Claims 7 and 28, line 1 each, the term "having more" renders the claim indefinite. It is unclear whether said term means "comprising a sequence with more" or "consisting of a sequence with more". The skilled artisan would not know the metes and bounds of the recited invention. For purposes of examination, it is assumed that "having" means "comprising a sequence with more".

Claim 5 is rendered indefinite for improper antecedent usage as follows.

For Claim 5, lines 2-3, the phrase "a protease having..." should be corrected to "the protease having...".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Rejection of Claims 1-5, 7, 11-13, and 24 under 35 U.S.C. 102(b) as being anticipated by Isono et al, 1972 as evidenced by Isono et al, 1972 and Esaki et al, 1994, for the reasons explained in the prior action, is maintained. Claim 28 is herein rejected under 35 U.S.C. 102(b) as being anticipated by Isono et al, 1972 as evidenced by Isono et al, 1972 and Esaki et al, 1994, for the same reasons.

In support of their request that said rejection be withdrawn, Applicants argue the following. Anticipation is a question of fact; an anticipatory reference must disclose each and every limitation of the claimed invention, either expressly or inherently. In relying upon the theory of inherency, the examiner must provide a basis in fact and/or technical reasoning to reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art.

This argument is not found to be persuasive for the following reasons. First, the claims fail to recite thermostability as a functional limitation for the encompassed polypeptides. Therefore, the prior art is not required to teach said limitation. Second, even if the claims did recite thermostability as a functional limitation, which the claims do not, the skilled artisan would believe, based on Isono et al and Esaki et al, that the isolated protease of Isono et al, 1972 does have thermostability.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/576,491

Art Unit: 1652

Rejection of Claims 24 and 25 under 35 U.S.C. 103(a) as being unpatentable over Isono et al, 1972 in view of Okuda et al, 2004 (FD 12-MAR-2003), for the reasons explained in the prior action, is maintained. In support of their request that said rejection be withdrawn, Applicants provide the same argument presented above for the rejection of Claims 1-5, 7, 11-13, 24, and 28 under 35 U.S.C. 102(b). This argument is not found to be persuasive for the reasons explained above.

Allowable Subject Matter

No claims are allowable.

Applicant's amendment necessitated any new grounds of rejection presented in this Office action. Any new references were cited solely to support rejection based or amendment or rebut Applicants' arguments. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Regarding filing an Appeal, Applicants are referred to the Official Gazette Notice published July 12, 2005 describing the Pre-Appeal Brief Review Program.

Final Comments

To insure that each document is properly filed in the electronic file wrapper, it is requested that each of amendments to the specification, amendments to the claims, Applicants' remarks, requests for extension of time, and any other distinct papers be submitted on separate pages.

It is also requested that Applicants identify support, within the original application, for any amendments to the claims and specification.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheridan L. Swope whose telephone number is 571-272-0943. The examiner can normally be reached on M-F; 9:30-7 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Nashed can be reached on 571-272-0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on the access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/SHERIDAN SWOPE/ Primary Examiner, Art Unit 1652